

Amendments to the Claims

A complete list of pending claims follows:

1. (Previously Amended) A computer system, comprising:  
a source subsystem;  
a target subsystem, wherein the source node and the target node are communicatively coupled; and  
a repository subsystem, wherein the repository subsystem is external to each of the source subsystem and the target subsystem and wherein the repository subsystem is communicatively coupled to each of the source subsystem and the target subsystem to facilitate the communication of data between the repository subsystem and the target subsystem and between the repository subsystem and the source subsystem.
2. (Original) The computer system of claim 1, further comprising a network, wherein the source subsystem and target subsystem are communicatively coupled across the network.
3. (Previously Amended) The computer system of claim 2, further comprising:  
a server cluster, wherein the server cluster is comprised of the source subsystem and the target subsystem;  
wherein the source subsystem is operable to issue a write statement; and  
wherein the write statement issued by the source subsystem is replicated in the target subsystem according to a data transfer mode.

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4. (Previously Amended) The computer system of claim 3, wherein the repository subsystem is operable to queue the write statement issued by the source subsystem and deliver the write statement to the target subsystem.

5. (Previously Amended) The computer system of claim 4, wherein the source subsystem further comprises:

a source node operable to issue the write statement; and

a source storage device operable to store data and meta-data and changes thereto in response to the write statement.

6. (Original) The computer system of claim 5, wherein the target subsystem further comprises:

a target node operable to receive the write statement; and

a target storage device operable to store data and meta-data and changes thereto in response to the write statement.

7. (Original) The computer system of claim 6, wherein the data transfer mode is an asynchronous mode.

8. (Original) The computer system of claim 7, wherein the repository subsystem further comprises:

a repository node operable to receive and transmit the write statement; and

a repository queue operable to queue the write statement.

9. (Previously Amended) The computer system of claim 8,  
wherein the source node is operable to send the write statement to the repository  
node;

wherein the repository node is operable to queue the write statement in the  
repository queue; and

wherein the target node is able to receive the write statement from the repository  
subsystem.

10. (Original) The computer system of claim 8,  
wherein the source node is operable to send the write signal to the repository node  
when the source subsystem is currently unable to replicate the write statement;

wherein the repository node is operable to queue the write statement in the  
repository queue; and

wherein the target subsystem is able to receive the write statement from the  
repository subsystem when the target subsystem is able to replicate the write statement.

11. (Original) The computer system of claim 10, wherein the source node is operable  
to send the write statement to the repository subsystem if the source node receives a choke signal  
from the target subsystem.

12. (Original) The computer system of claim 10, wherein the target node is operable  
to send the choke signal to the source node if the target subsystem is unable to replicate the write  
statement.

13. (Previously Amended) The computer system of claim 10, wherein the target subsystem further comprises a target queue associated with a choke threshold and wherein the target subsystem is operable to queue the write statement if the target queue is not above the choke threshold.

14. (Original) The computer system of claim 13, wherein the target node is operable to send the choke signal to the source node if the target node is unable to replicate the write statement and the target queue is above the choke threshold.

15. (Original) The computer system of claim 10, wherein the repository queue is associated with a choke threshold and is operable to queue the write statement if the repository queue is not above the choke threshold.

16. (Original) The computer system of claim 15, wherein the repository node is operable to send a choke signal to the source node if the repository queue is above the choke threshold.

17. (Original) The computer system of claim 16, wherein the source subsystem further comprises a source queue.

18. (Original) The computer system of claim 17, wherein the source node is operable to queue the write statement in the source queue if it receives a choke signal from the repository node.

19. (Original) The computer system of claim 8, further comprising a plurality of repository subsystems.

20. (Previously Amended) The computer system of claim 19, wherein the content of each repository queue is mirrored in at least one other repository queue.

21. (Original) The computer system of claim 3, wherein the data transfer mode is a synchronous mode.

22. (Original) The computer system of claim 3, wherein the data transfer mode may be selectively changed between an asynchronous mode and a synchronous mode.

23. (Previously Amended) A method of data replication in a computer system, comprising a source subsystem, a target subsystem, and a repository subsystem, wherein the repository subsystem is external to and communicatively coupled to each of the source subsystem and the target subsystem, comprising:

issuing a write subsystem at the source subsystem; and

delivering the write statement to the repository subsystem for storage at the repository subsystem for later transmission to the target subsystem.

24. (Original) The method of claim 23, wherein the repository subsystem comprises:  
a repository node operable to receive a write statement; and  
a repository queue operable to queue the write statement.

25. (Original) The method of claim 24, wherein the step of delivering the write statement to the repository subsystem comprises:

delivering the write statement to the repository node; and  
queuing the write statement in the repository queue.

26. (Original) The method of claim 25, further comprising the step of:  
pulling the write statement from the repository queue when the target subsystem is able to handle the write statement; and

replicating the write statement in the target subsystem.

27. (Original) The method of claim 26, wherein the write statement is delivered to the repository subsystem if the target subsystem is unable to handle the write statement.

28. (Original) The method of claim 27, wherein the target subsystem further comprises a target node operable to receive the write statement.

29. (Original) The method of claim 28, wherein the target subsystem is unable to handle the write statement if the target node cannot handle the write statement.

30. (Original) The method of claim 28, wherein the target subsystem further comprises a target queue associated with a choke threshold and operable to queue the write statement if the target queue is below the choke threshold.

31. (Previously Amended) The method of claim 30, wherein the target subsystem is unable to handle the write statement if:

the target node is unable to handle the write statement; and

the target queue is unable to queue the write statement.

32-40. (Cancelled).

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